

Atty Dkt. No.: 10003512-1
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IN THE CLAIMS:

1. (PREVIOUSLY PRESENTED) A method comprising dispensing drops from a pulse jet and striking the pulse jet at least once, wherein the pulse jet comprises a chamber and a thermoelectric or piezoelectric ejector in the chamber.
2. (ORIGINAL) A method according to claim 1 wherein the pulse jet is struck intermittently multiple times.
3. (ORIGINAL) The method of claim 2 wherein the pulse jet includes a housing enclosing a chamber and having a discharge opening for drops, and wherein the housing is struck on an outside surface with a member.
4. (ORIGINAL) The method according to claim 3 wherein the housing is struck in a same direction in which drops are ejected from the pulse jet.
5. (ORIGINAL) The method of claim 3 wherein the chamber is struck at a rate of 0.2 to 10 strikes/second.
6. (ORIGINAL) The method of claim 3 wherein the chamber is struck at a rate of 1 to 5 strikes/second.
7. (ORIGINAL) The method according to claim 3 wherein each strike delivers between 10 mJ to 150 mJ.
8. (ORIGINAL) The method according to claim 3 wherein each strike delivers between 50 mJ to 100 mJ.
9. (ORIGINAL) The method according to claim 2 wherein the pulse jet includes a thermoelectric ejector in the chamber.

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10. (ORIGINAL) The method according to claim 2 wherein the pulse jet includes a piezoelectric ejector in the chamber.
11. (PREVIOUSLY PRESENTED) A method of fabricating an array of chemical moieties on a substrate, comprising:
dispensing drops from a pulse jet onto the substrate so as to form the array; and
intermittently striking the pulse jet multiple times;
wherein the pulse jet comprises a chamber and a thermoelectric or piezoelectric ejector in the chamber.
12. (ORIGINAL) A method according to claim 11 wherein multiple strikes are applied between the dispensing of drops by the pulse jet.
13. (ORIGINAL) A method according to claim 11 wherein the chemical moieties are polynucleotides of different sequences.
14. (ORIGINAL) A method according to claim 13 wherein the polynucleotides are DNA.

Claims 15-26 (CANCELED)

27. (WITHDRAWN) A method comprising dispensing drops from a pulse jet and striking the pulse jet at least once, wherein no drops are dispensed while striking.
28. (WITHDRAWN) A method according to claim 27 wherein the pulse jet is struck intermittently multiple times.
29. (WITHDRAWN) The method of claim 28 wherein the pulse jet includes a housing enclosing a chamber and having a discharge opening for drops, and wherein the housing is struck on an outside surface with a member.

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30. (WITHDRAWN) The method according to claim 29 wherein the housing is struck in a same direction in which drops are ejected from the pulse jet.
31. (WITHDRAWN) A method of fabricating an array of chemical moieties on a substrate, comprising:
dispensing drops from a pulse jet onto the substrate so as to form the array; and
intermittently striking the pulse jet multiple times;
wherein no drops are dispensed while striking.
32. (WITHDRAWN) A method according to claim 31 wherein multiple strikes are applied between the dispensing of drops by the pulse jet.
33. (WITHDRAWN) A method according to claim 31 wherein the chemical moieties are polynucleotides of different sequences.
34. (WITHDRAWN) A method according to claim 33 wherein the polynucleotides are DNA.
35. (CURRENTLY AMENDED) A method according to claim 1 wherein the striking improves pulse jet firing reliability, relative to pulse jet firing reliability absent the striking.
36. (CURRENTLY AMENDED) A method according to claim 11 wherein the striking improves pulse jet firing reliability, relative to pulse jet firing reliability absent the striking.
37. (PREVIOUSLY PRESENTED) A method comprising dispensing drops from a pulse jet and striking the pulse jet at least once, wherein the pulse jet comprises a rigid chamber.
38. (PREVIOUSLY PRESENTED) A method according to claim 1 wherein the pulse jet is struck intermittently multiple times.
39. (PREVIOUSLY PRESENTED) A method of fabricating an array of chemical moieties on a substrate, comprising:

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dispensing drops from a pulse jet onto the substrate so as to form the array; and
intermittently striking the pulse jet multiple times;
wherein the pulse jet comprises a rigid chamber.

40. (PREVIOUSLY PRESENTED) A method according to claim 39 wherein multiple strikes are applied between the dispensing of drops by the pulse jet.
41. (PREVIOUSLY PRESENTED) A method according to claim 39 wherein the chemical moieties are polynucleotides of different sequences.
42. (PREVIOUSLY PRESENTED) A method according to claim 41 wherein the polynucleotides are DNA.

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